

**Table 5: Inpatient locations in Acute Care Hospitals licensed for 150 beds or less (excluding Long Term Acute Care –LTAC and Rehab)
Central Line Associated Bloodstream Infection (CLABSI)
Standardized Infection Ratio (SIR) Tables
January 1, 2008 – November 30, 2008**

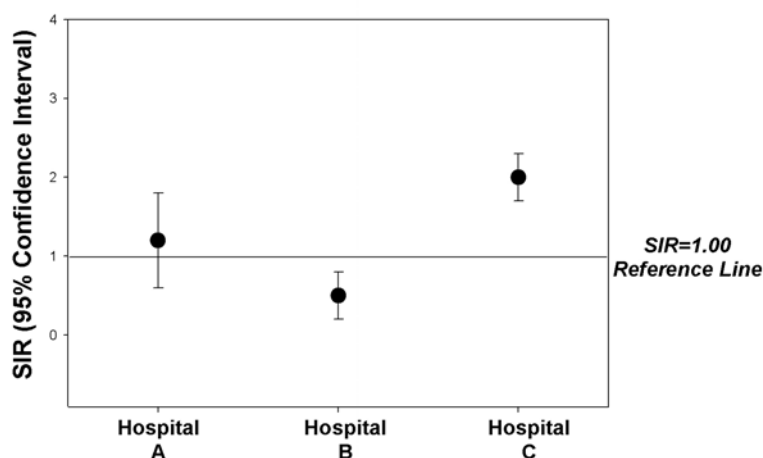
See [Definition of Terms](#) at the [Healthcare Acquired Infections Report](#) website for a more in-depth explanation of Standardized Infection Ratios.

Standardized Infection Ratio: The Standardized Infection Ratio (SIR) is a summary measure used to compare the central line associated bloodstream infection (CLABSI) experience among a group of reported locations to that of a standard population. It is the *observed* number of infections divided by the *expected* number of infections.

For HAI reports, the standard population comes from NHSN data reported from all hospitals using the system. “Expected” *is based on historical data for those procedures at the national level.

Confidence Intervals (CIs)

Because we can never obtain a hospital’s true “population” data (e.g. all patients for all time), we use statistical procedures to “estimate” various measurements using “sample” data. Since estimates have “variability” we use 95% confidence limits (or intervals) to describe the variability around the estimate. These limits (or intervals) give us the range within which the TRUE value will fall 95% of the time, given that the sample data are reflective of the true population. Below is a graphical example of what CIs would look like if they were in graph form.



Graph Interpretation:

Hospital A: If the 95% confidence interval crosses over the reference line of 1.0, we conclude that the hospital's infection rate is similar (not significantly different) from "expected" (predicted).

Hospital B: If the 95% confidence interval falls completely below the reference line of 1.0, we conclude that the hospital's infection rate is significantly lower than "expected" (predicted).

Hospital C: If the 95% confidence interval falls completely above the reference line of 1.0, we conclude that the hospital's infection rate is significantly higher than "expected" (predicted).

All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.

***Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.**

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR)
Table 5

Statewide

Location: Surgical Inpatient Ward

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of CLABSI	No. of Central Line Days	Statistically “Expected” No. of CLABSI [‡]	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
Carolina Pines Regional Medical Center	2	431	0.6896	2.90	0.35	- 10.48	Not Different
Kershaw County Medical Center	1	703	1.1248	0.89	0.02	- 4.95	Not Different
Patewood Memorial Hospital	0	29	0.0464	0.00	0.00	- 79.50	Not Different

[†] SC Hospital SIR Statistical Interpretation

- Similar = Statistically not different than the standard population
- Lower = Statistically lower than the standard population
- Higher = Statistically higher than the standard population

[‡] Please note that the “expected” number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR)							
Table 5							
Statewide							
Location: Medical Inpatient Ward							
Reporting Period: January 1, 2008 – November 30, 2008							
Hospital	Observed No. Of CLABSI	No. of Central Line Days	Statistically “Expected” No. of CLABSI [‡]	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
Carolina Pines Regional Medical Center	5	968	1.7	2.87	0.93	- 6.70	Not Different
Charleston Memorial Hospital	8	925	1.7	4.80	2.07	- 9.47	Higher
Colleton Medical Center	2	1902	3.4	0.58	0.07	- 2.11	Not Different
Kershaw County Medical Center	2	933	1.7	1.19	0.14	- 4.30	Not Different
Lake City Community Hospital	0	65	0.1	0.00	0.00	- 31.53	Not Different
Wallace Thomson Hospital	0	84	0.2	0.00	0.00	- 24.40	Not Different

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Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR)
Table 5

Statewide

Location: Step Down Unit

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of CLABSI	No. of Central Line Days*	Statistically “Expected” No. of CLABSI‡	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation†
					Lower	Upper	
Carolina Pines Regional Medical Center	1	291	0.7	1.43	0.04	- 7.98	Not Different
East Cooper Regional Medical Center	0	570	1.4	0.00	0.00	- 2.70	Not Different
Laurens County Healthcare System	0	258	0.6	0.00	0.00	- 5.96	Not Different
St. Francis - Eastside	*	1	*	*	*	- *	*
Upstate Carolina Medical Center	0	236	0.6	0.00	0.00	- 6.51	Not Different

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- * Too few central line days. Reporting on too few procedures is a risk to patient confidentiality. If there are twenty-five (25) or fewer central line days, the report for the number of infections will be deferred until there are more central line days.

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR)
Table 5

Statewide

Location: Medical/Surgical Inpatient Ward

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of CLABSI	No. of Central Line Days [*]	Statistically “Expected” No. of CLABSI [‡]	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
Abbeville Area Medical Center	0	52	0.1	0.00	0.00	- 54.57	Not Different
Allendale County Hospital	1	296	0.4	2.60	0.06	- 14.48	Not Different
Cannon Memorial Hospital	1	158	0.2	4.87	0.12	- 27.13	Not Different
Chesterfiel d General Hospital	0	129	0.2	0.00	0.00	- 22.00	Not Different
Coastal Carolina Medical Center	0	78	0.1	0.00	0.00	- 36.38	Not Different
Colleton Medical Center	1	1307	1.7	0.59	0.01	- 3.28	Not Different
East Cooper Regional Medical Center	1	917	1.2	0.84	0.02	- 4.67	Not Different
Edgefield County Hospital	*	0	*	*	*	- *	*

Hospital	Observed No. Of CLABSI	No. of Central Line Days [*]	Statistically “Expected” No. of CLABSI [‡]	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
Fairfield Memorial Hospital	*	0	*	*	*	-	*
Georgetow n Memorial Hospital	5	774	1.0	4.97	1.61	-	11.60 Higher
Greer Memorial Hospital	1	426	0.6	1.81	0.05	-	10.06 Not Different
Hampton Regional Medical Center	0	215	0.3	0.00	0.00	-	13.20 Not Different
Hillcrest Memorial Hospital	0	631	0.8	0.00	0.00	-	4.50 Not Different
Hilton Head Regional Medical Center	1	1137	1.5	0.68	0.02	-	3.77 Not Different
Laurens County Healthcare System	2	469	0.6	3.28	0.40	-	11.85 Not Different
Loris Communit y Hospital	0	373	0.5	0.00	0.00	-	7.61 Not Different
Marion County Medical Center	0	544	0.7	0.00	0.00	-	5.22 Not Different
Marlboro Park Hospital	0	124	0.2	0.00	0.00	-	22.88 Not Different
McLeod Medical Center - Darlington	0	471	0.6	0.00	0.00	-	6.02 Not Different

Hospital	Observed No. Of CLABSI	No. of Central Line Days [*]	Statistically “Expected” No. of CLABSI [‡]	Comparison to Standard Population SIR = 1 (Observed = “Expected”)			
				Hospital SIR = <u>Observed</u> “Expected”	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
McLeod Medical Center - Dillon	0	193	0.3	0.00	0.00 - 14.70	Not Different	
Newberry County Memorial Hospital	0	248	0.3	0.00	0.00 - 11.44	Not Different	
Palmetto Baptist Medical Center - Easley	2	625	0.8	2.46	0.30 - 8.89	Not Different	
Providence Hospital Northeast	0	654	0.9	0.00	0.00 - 4.34	Not Different	
Summervil le Medical Center	0	1438	1.9	0.00	0.00 - 1.97	Not Different	
Upstate Carolina Medical Center	1	314	0.4	2.45	0.06 - 13.65	Not Different	
Waccama w Communit y Hospital	3	1060	1.4	2.18	0.45 - 6.36	Not Different	
Wallace Thomson Hospital	0	259	0.3	0.00	0.00 - 10.96	Not Different	
Williamsb urg Regional Hospital	*	15	*	*	* - *	*	

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